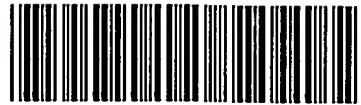


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/563,726
Source: JFWP
Date Processed by STIC: 07/31/2006

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/563,726

DATE: 07/31/2006
TIME: 14:24:12

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\07312006\J563726.raw

3 <110> APPLICANT: THE GENERAL HOSPITAL CORPORATION
5 <120> TITLE OF INVENTION: FUGETACTIC PROTEINS, COMPOSITIONS AND METHODS OF
USE
7 <130> FILE REFERENCE: (51588)62063.WO
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/563,726
C--> 10 <141> CURRENT FILING DATE: 2006-01-06
12 <150> PRIOR APPLICATION NUMBER: 60/485,550
13 <151> PRIOR FILING DATE: 2003-07-07
15 <160> NUMBER OF SEQ ID NOS: 121
17 <170> SOFTWARE: PatentIn Ver. 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 724
21 <212> TYPE: PRT
22 <213> ORGANISM: Mus sp.
24 <400> SEQUENCE: 1
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28 Phe Gln Ala Glu Ile Ala Gln Leu Met Ser Leu Ile Ile Asn Thr Phe
29 20 25 30
31 Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser Asn Ala Ser
32 35 40 45
34 Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu Thr Asp Pro Ser Lys
35 50 55 60
37 Leu Asp Ser Gly Lys Glu Leu Lys Ile Asp Ile Ile Pro Asn Pro Gln
38 65 70 75 80
40 Glu Arg Thr Leu Thr Leu Val Asp Thr Gly Ile Gly Met Thr Lys Ala
41 85 90 95
43 Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys Ser Gly Thr Lys Ala
44 100 105 110
46 Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile Ser Met Ile Gly Gln
47 115 120 125
49 Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val Ala Glu Lys Val Val
50 130 135 140
52 Val Ile Thr Lys His Asn Asp Asp Glu Gln Tyr Ala Trp Glu Ser Ser
53 145 150 155 160
55 Ala Gly Gly Ser Phe Thr Val Arg Ala Asp His Gly Glu Pro Ile Gly
56 165 170 175
58 Arg Gly Thr Lys Val Ile Leu His Leu Lys Glu Asp Gln Thr Glu Tyr
59 180 185 190
61 Leu Glu Glu Arg Arg Val Lys Glu Val Val Lys Lys His Ser Gln Phe
62 195 200 205
64 Ile Gly Tyr Pro Ile Thr Leu Tyr Leu Glu Lys Glu Arg Glu Lys Glu
65 210 215 220
67 Ile Ser Asp Asp Glu Ala Glu Glu Lys Gly Glu Lys Glu Glu

(Pg-6)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/563,726

DATE: 07/31/2006
TIME: 14:24:12

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\07312006\J563726.raw

68	225	230	235	240
70	Asp	Lys	Asp	Asp
	Glu	Glu	Lys	Pro
			Lys	Ile
			Glu	Asp
			Val	Gly
			Ser	Asp
71		245	250	255
73	Glu	Glu	Asp	Asp
	Ser	Gly	Lys	Asp
			Lys	Lys
			Lys	Thr
			Lys	Lys
74		260	265	270
76	Lys	Glu	Lys	Tyr
	Ile	Asp	Gln	Glu
			Leu	Asn
			Lys	Thr
			Lys	Pro
77		275	280	285
79	Trp	Thr	Arg	Asn
	Pro	Asp	Asp	Ile
			Thr	Gln
			Glu	Glu
			Tyr	Gly
80		290	295	300
82	Tyr	Lys	Ser	Leu
	Thr	Asn	Asp	Trp
			Glu	Asp
			His	Leu
			Ala	Val
83	305	310	315	320
85	Phe	Ser	Val	Glu
	Gly	Gln	Leu	Glu
			Phe	Arg
			Ala	Leu
			Leu	Phe
86		325	330	335
88	Arg	Arg	Ala	Pro
	Phe	Asp	Leu	Phe
			Glu	Asn
			Lys	Lys
			Lys	Asn
89		340	345	350
91	Ile	Lys	Leu	Tyr
	Val	Arg	Arg	Val
			Phe	Ile
			Met	Asp
			Ser	Cys
			Asp	Glu
92		355	360	365
94	Leu	Ile	Pro	Glu
	Tyr	Leu	Asn	Phe
			Ile	Arg
			Gly	Val
			Val	Asp
			Ser	Glu
95		370	375	380
97	Asp	Leu	Pro	Leu
	Asn	Ile	Ser	Arg
			Glu	Met
			Leu	Gln
			Gln	Ser
			Lys	Ile
98	385	390	395	400
100	Leu	Lys	Val	Ile
	Arg	Lys	Asn	Ile
			Val	Lys
			Cys	Leu
			Glu	Leu
101		405	410	415
103	Ser	Glu	Leu	Ala
	Glu	Asp	Lys	Glu
			Asn	Tyr
			Lys	Lys
			Phe	Tyr
			Tyr	Glu
104		420	425	430
106	Phe	Ser	Lys	Asn
	Leu	Lys	Leu	Gly
			Ile	His
			Glu	Asp
			Ser	Thr
			Asn	Arg
107		435	440	445
109	Arg	Arg	Leu	Ser
	Glu	Leu	Leu	Arg
			Tyr	Tyr
			His	Thr
			Ser	Gln
			Ser	Gly
			Asp	
110		450	455	460
112	Glu	Met	Thr	Ser
	Leu	Ser	Leu	Ser
	Glu	Tyr	Val	Ser
			Arg	Met
			Lys	Glu
			Thr	Gln
113	465	470	475	480
115	Lys	Ser	Ile	Tyr
	Tyr	Tyr	Ile	Thr
			Gly	Glu
			Ser	Lys
			Glu	Gln
			Val	Ala
116		485	490	495
118	Ser	Ala	Phe	Val
			Glu	Arg
			Val	Arg
			Lys	Arg
			Gly	Phe
			Glu	Val
			Val	Val
			Tyr	
119		500	505	510
121	Met	Thr	Glu	Pro
	Pro	Ile	Asp	Glu
			Tyr	Cys
			Val	Gln
			Gln	Leu
			Lys	Glu
122		515	520	525
124	Asp	Gly	Lys	Ser
	Ser	Leu	Val	Ser
			Val	Thr
			Lys	Glu
			Gly	Leu
			Glu	Leu
125		530	535	540
127	Glu	Asp	Glu	Glu
	Glu	Glu	Glu	Lys
			Lys	Lys
			Met	Glu
			Glu	Ser
			Lys	Ala
			Phe	
128	545	550	555	560
130	Glu	Asn	Leu	Cys
			Cys	Lys
			Leu	Met
			Lys	Glu
			Ile	Leu
			Asp	Lys
			Lys	Val
131		565	570	575
133	Lys	Val	Thr	Ile
			Ser	Ser
			Asn	Arg
			Leu	Val
			Ser	Ser
			Pro	Cys
			Cys	Cys
134		580	585	590
136	Thr	Ser	Thr	Tyr
			Gly	Trp
			Trp	Thr
			Ala	Asn
			Met	Glu
			Arg	Ile
			Met	Met
			Lys	Ala
137		595	600	605
139	Gln	Ala	Leu	Arg
			Asp	Asn
			Ser	Thr
			Met	Gly
			Tyr	Tyr
			Met	Met
			Ala	Lys
140		610	615	620

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/563,726

DATE: 07/31/2006
TIME: 14:24:12

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\07312006\J563726.raw

142 His Leu Glu Ile Asn Pro Asp His Pro Ile Val Glu Thr Leu Arg Gln
143 625 630 635 640
145 Lys Ala Glu Ala Asp Lys Asn Asp Lys Ala Val Lys Asp Leu Val Val
146 645 650 655
148 Leu Leu Phe Glu Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp
149 660 665 670
151 Pro Gln Thr His Ser Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu
152 675 680 685
154 Gly Ile Asp Glu Asp Glu Val Ala Ala Glu Glu Pro Asn Ala Ala Val
155 690 695 700
157 Pro Asp Glu Ile Pro Pro Leu Glu Gly Asp Glu Asp Ala Ser Arg Met
158 705 710 715 720
160 Glu Glu Val Asp
164 <210> SEQ ID NO: 2
165 <211> LENGTH: 724
166 <212> TYPE: PRT
167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 2
170 Met Pro Glu Glu Val His His Gly Glu Glu Val Glu Thr Phe Ala
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173 Phe Gln Ala Glu Ile Ala Gln Leu Met Ser Leu Ile Ile Asn Thr Phe
174 20 25 30
176 Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu Ile Ser Asn Ala Ser
177 35 40 45
179 Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu Thr Asp Pro Ser Lys
180 50 55 60
182 Leu Asp Ser Gly Lys Glu Leu Lys Ile Asp Ile Ile Pro Asn Pro Gln
183 65 70 75 80
185 Glu Arg Thr Leu Thr Leu Val Asp Thr Gly Ile Gly Met Thr Lys Ala
186 85 90 95
188 Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys Ser Gly Thr Lys Ala
189 100 105 110
191 Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile Ser Met Ile Gly Gln
192 115 120 125
194 Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val Ala Glu Lys Val Val
195 130 135 140
197 Val Ile Thr Lys His Asn Asp Asp Glu Gln Tyr Ala Trp Glu Ser Ser
198 145 150 155 160
200 Ala Gly Gly Ser Phe Thr Val Arg Ala Asp His Gly Glu Pro Ile Gly
201 165 170 175
203 Arg Gly Thr Lys Val Ile Leu His Leu Lys Glu Asp Gln Thr Glu Tyr
204 180 185 190
206 Leu Glu Glu Arg Arg Val Lys Glu Val Val Lys Lys His Ser Gln Phe
207 195 200 205
209 Ile Gly Tyr Pro Ile Thr Leu Tyr Leu Glu Lys Glu Arg Glu Lys Glu
210 210 215 220
212 Ile Ser Asp Asp Glu Ala Glu Glu Lys Gly Glu Lys Glu Glu Glu
213 225 230 235 240
215 Asp Lys Asp Asp Glu Glu Lys Pro Lys Ile Glu Asp Val Gly Ser Asp

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/563,726

DATE: 07/31/2006
TIME: 14:24:12

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\07312006\J563726.raw

216	245	250	255													
218	Glu	Glu	Asp	Asp	Ser	Gly	Lys	Asp	Lys	Lys	Lys	Thr	Lys	Lys	Ile	
219															270	
221	Lys	Glu	Lys	Tyr	Ile	Asp	Gln	Glu	Leu	Asn	Lys	Thr	Lys	Pro	Ile	
222															285	
224	Trp	Thr	Arg	Asn	Pro	Asp	Asp	Ile	Thr	Gln	Glu	Glu	Tyr	Gly	Glu	Phe
225															300	
227	Tyr	Lys	Ser	Leu	Thr	Asn	Asp	Trp	Glu	Asp	His	Leu	Ala	Val	Lys	His
228	305														320	
230	Phe	Ser	Val	Glu	Gly	Gln	Leu	Glu	Phe	Arg	Ala	Leu	Leu	Phe	Ile	Pro
231															335	
233	Arg	Arg	Ala	Pro	Phe	Asp	Leu	Phe	Glu	Asn	Lys	Lys	Lys	Asn	Asn	
234															350	
236	Ile	Lys	Leu	Tyr	Val	Arg	Arg	Val	Phe	Ile	Met	Asp	Ser	Cys	Asp	Glu
237															365	
239	Leu	Ile	Pro	Glu	Tyr	Leu	Asn	Phe	Ile	Arg	Gly	Val	Val	Asp	Ser	Glu
240															380	
242	Asp	Leu	Pro	Leu	Asn	Ile	Ser	Arg	Glu	Met	Leu	Gln	Gln	Ser	Lys	Ile
243	385														400	
245	Leu	Lys	Val	Ile	Arg	Lys	Asn	Ile	Val	Lys	Lys	Cys	Leu	Glu	Leu	Phe
246															415	
248	Ser	Glu	Leu	Ala	Glu	Asp	Lys	Glu	Asn	Tyr	Lys	Lys	Phe	Tyr	Glu	Ala
249															430	
251	Phe	Ser	Lys	Asn	Leu	Lys	Leu	Gly	Ile	His	Glu	Asp	Ser	Thr	Asn	Arg
252															445	
254	Arg	Arg	Leu	Ser	Glu	Leu	Leu	Arg	Tyr	His	Thr	Ser	Gln	Ser	Gly	Asp
255															460	
257	Glu	Met	Thr	Ser	Leu	Ser	Glu	Tyr	Val	Ser	Arg	Met	Lys	Glu	Thr	Gln
258	465														480	
260	Lys	Ser	Ile	Tyr	Tyr	Ile	Thr	Gly	Glu	Ser	Lys	Glu	Gln	Val	Ala	Asn
261															495	
263	Ser	Ala	Phe	Val	Glu	Arg	Val	Arg	Lys	Arg	Gly	Phe	Glu	Val	Val	Tyr
264															510	
266	Met	Thr	Glu	Pro	Ile	Asp	Glu	Tyr	Cys	Val	Gln	Gln	Leu	Lys	Glu	Phe
267															525	
269	Asp	Gly	Lys	Ser	Leu	Val	Ser	Val	Thr	Lys	Glu	Gly	Leu	Glu	Leu	Pro
270															540	
272	Glu	Asp	Glu	Glu	Glu	Lys	Lys	Lys	Met	Glu	Glu	Ser	Lys	Ala	Lys	Phe
273	545														560	
275	Glu	Asn	Leu	Cys	Lys	Leu	Met	Lys	Glu	Ile	Leu	Asp	Lys	Val	Glu	
276															575	
278	Lys	Val	Thr	Ile	Ser	Asn	Arg	Leu	Val	Ser	Ser	Pro	Cys	Cys	Ile	Val
279															590	
281	Thr	Ser	Thr	Tyr	Gly	Trp	Thr	Ala	Asn	Met	Glu	Arg	Ile	Met	Lys	Ala
282															605	
284	Gln	Ala	Leu	Arg	Asp	Asn	Ser	Thr	Met	Gly	Tyr	Met	Met	Ala	Lys	Lys
285															620	
287	His	Leu	Glu	Ile	Asn	Pro	Asp	His	Pro	Ile	Val	Glu	Thr	Leu	Arg	Gln
288	625														640	
289																

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/563,726

DATE: 07/31/2006
TIME: 14:24:12

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\07312006\J563726.raw

290 Lys Ala Glu Ala Asp Lys Asn Asp Lys Ala Val Lys Asp Leu Val Val
291 645 650 655
293 Leu Leu Phe Glu Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp
294 660 665 670
296 Pro Gln Thr His Ser Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu
297 675 680 685
299 Gly Ile Asp Glu Asp Glu Val Ala Ala Glu Glu Pro Asn Ala Ala Val
300 690 695 700
302 Pro Asp Glu Ile Pro Pro Leu Glu Gly Asp Glu Asp Ala Ser Arg Met
303 705 710 715 720
305 Glu Glu Val Asp
309 <210> SEQ ID NO: 3
310 <211> LENGTH: 732
311 <212> TYPE: PRT
312 <213> ORGANISM: Homo sapiens
314 <400> SEQUENCE: 3
315 Met Pro Glu Glu Thr Gln Thr Gln Asp Gln Pro Met Glu Glu Glu Glu
316 1 5 10 15
318 Val Glu Thr Phe Ala Phe Gln Ala Glu Ile Ala Gln Leu Met Ser Leu
319 20 25 30
321 Ile Ile Asn Thr Phe Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu
322 35 40 45
324 Ile Ser Asn Ser Ser Asp Ala Leu Asp Lys Ile Arg Tyr Glu Ser Leu
325 50 55 60
327 Thr Asp Pro Ser Lys Leu Asp Ser Gly Lys Glu Leu His Ile Asn Leu
328 65 70 75 80
330 Ile Pro Asn Lys Gln Asp Arg Thr Leu Thr Ile Val Asp Thr Gly Ile
331 85 90 95
333 Gly Met Thr Lys Ala Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys
334 100 105 110
336 Ser Gly Thr Lys Ala Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile
337 115 120 125
339 Ser Met Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val
340 130 135 140
342 Ala Glu Lys Val Thr Val Ile Thr Lys His Asn Asp Asp Glu Gln Tyr
343 145 150 155 160
345 Ala Trp Glu Ser Ser Ala Gly Gly Ser Phe Thr Val Arg Thr Asp Thr
346 165 170 175
348 Gly Glu Pro Met Gly Arg Gly Thr Lys Val Ile Leu His Leu Lys Glu
349 180 185 190
351 Asp Gln Thr Glu Tyr Leu Glu Glu Arg Arg Ile Lys Glu Ile Val Lys
352 195 200 205
354 Lys His Ser Gln Phe Ile Gly Tyr Pro Ile Thr Leu Phe Val Glu Lys
355 210 215 220
357 Glu Arg Asp Lys Glu Val Ser Asp Asp Glu Ala Glu Glu Lys Glu Asp
358 225 230 235 240
360 Lys Glu Glu Glu Lys Glu Glu Lys Glu Ser Glu Asp Lys Pro
361 245 250 255
363 Glu Ile Glu Asp Val Gly Ser Asp Glu Glu Glu Lys Lys Asp Gly

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/563,726

DATE: 07/31/2006
TIME: 14:24:13

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\07312006\J563726.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:119; Xaa Pos. 3,4,5,6,7,8,9,10,11,12,13,220,221,222,223,224,225,226
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Seq#:119; Xaa Pos. 241,242,243,244,245,246,247,248,249,250,251,252,253,254
Seq#:119; Xaa Pos. 255,256,257,258,259,260,261,262,263,264,265,266,267,268
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Seq#:119; Xaa Pos. 559,560,561,691,692,693,694,695,696,697,698,699,700,701
Seq#:119; Xaa Pos. 702,703,704,705,706,707
Seq#:120; Xaa Pos. 227,228,229,230,231,232,233,234,235,236,237,238,239,240
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VERIFICATION SUMMARY DATE: 07/31/2006
PATENT APPLICATION: US/10/563,726 TIME: 14:24:13

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\07312006\J563726.raw

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2450 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (73) SEQUENCE:
L:2822 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (92) SEQUENCE:
L:3380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0
M:341 Repeated in SeqNo=119
L:3577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:224
M:341 Repeated in SeqNo=120